

SM-75

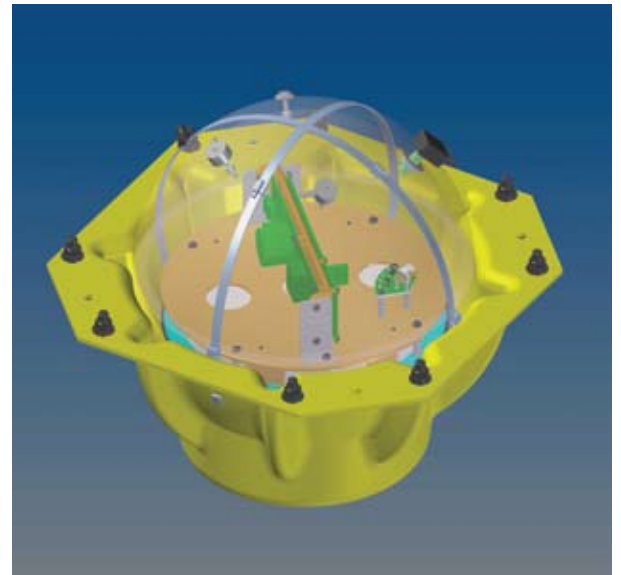
SMART MODEM

All in one modem, float, and release

Smart Modem Acoustic Release Technology (SMART) is a unique concept from Teledyne Benthos that combines the proven technology of an underwater acoustic release with the reliable undersea communications functionality of an acoustic modem.

The SM-75, or SMART Modem, is the latest model to be introduced in the SMART product line. Similar to the TR-6000, a proven Teledyne Benthos acoustic transponder, the electronics, batteries and a transducer are housed in a glass sphere with a burn wire release mechanism. This self-buoyant modem however offers much more capabilities for the user. The glass sphere contains the modem PCB which allows the user full telemetry capability to full ocean depth, with RS-232 connectivity to attached sensors. The SM-75 may operate independently or can function as a node in a small network.

The SM-75 is a modem, float and release all in one. This decreases the equipment cost, integration costs and deployments costs for the end user.



Key Features:

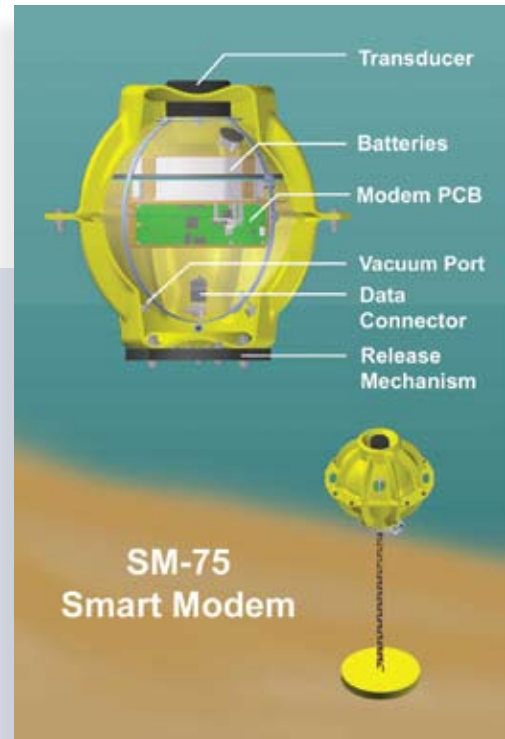
- Combined modem and release functions.
- Integrated into a glass flotation housing for easy deployment, recovery and storage.
- Enables real-time communication with your sub-sea instrument.
- Enough internal space and power to support other PCB systems.
- Can act as an underwater acoustic network repeater.
- Deck box connectivity to customer laptop and easy-to-use graphical user interface
- (GUI) software with visual confirmation of:
 - Range
 - Release status
 - Battery life
 - Data transfer status
 - Setup parameters
 - And much more...

SM-75 SMART MODEM



Specifications

Models:	13 in or 17 in sphere
Connectivity:	RS-232 port on outside of sphere
Vacuum:	Titanium vacuum port
Depth:	6700 meters
Life:	Up to 2 years (depending on usage)
Batteries:	30 D-cell alkaline batteries
Weight:	13 in = 40 lbs, 17 in = 60 lbs
Net buoyancy:	13 in = 5 lbs; 17 in = 38 lbs
Slant Range:	10 km
Frequency:	9-14 kHz
Transducer pattern:	Omnidirectional from upper hemisphere
Release:	Electrolytic dissolving wire (upon receipt of correct command)
Hard hat:	Yellow ribbed hard hat
Topside controller:	ATM-891 modem deck box, Telesonar PC GUI interface



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